

Title (en)  
Method and apparatus for generating and for decoding sound field data including ambisonics sound field data of an order higher than three

Title (de)  
Verfahren und Vorrichtung zur Erzeugung und Decodierung von Schallfelddaten einschließlich Ambisonics-Schallfelddaten höher als drei

Title (fr)  
Procédé et appareil pour générer et décoder des données de champ sonore incluant des données de champ sonore d'ambiophonie d'un ordre supérieur à trois

Publication  
**EP 2451196 A1 20120509 (EN)**

Application  
**EP 10306212 A 20101105**

Priority  
EP 10306212 A 20101105

Abstract (en)  
Audio signal datastreams for 2D presentation are channel oriented. Due to 3D video in cinema and broadcasting, spatial or 3D audio becomes attractive. Ambisonics coding/decoding provides a sound field description that is independent from any specific loudspeaker set-up. The inventive system facilitates real-time transmission of Ambisonics of an order higher than '3' as well as single microphone signals. The transmitted 3D sound field can be adapted at receiver side to the available positions of loudspeakers. The Ambisonics header information level is adaptable between a simple and an encoder related mode enabling fast decoder modifications. The Ambisonics processing is based on linear operators, i.e. the Ambisonics channels data can be packed and transmitted singly or in an assembled manner as a matrix.

IPC 8 full level  
**H04S 3/00** (2006.01)

CPC (source: EP)  
**H04S 7/30** (2013.01); **H04S 3/008** (2013.01); **H04S 2420/03** (2013.01); **H04S 2420/11** (2013.01)

Citation (applicant)  

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- J.DANIEL: "Spatial Sound Encoding Including Near Field Effect: Introducing Distance Coding Filters and a Viable, New Ambisonic Format", AES 23TH INTL.CONF., vol. 23, 25 May 2003 (2003-05-25)

Citation (search report)  

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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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